

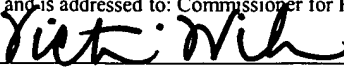
PATENT
Docket No. 529702000100

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Victoria Wilson

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Ruoying TAN et al.

Serial No.: 10/609,192

Filing Date: June 27, 2003

For: METHOD TO IDENTIFY SPECIFIC
INTERACTION BETWEEN LIGAND
AND RECEPTOR

Examiner: Not Yet Assigned

Group Art Unit: 1645

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

This Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☒ **Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.**
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of * is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly, no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of * is enclosed.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.

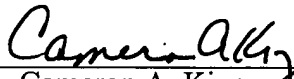
Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

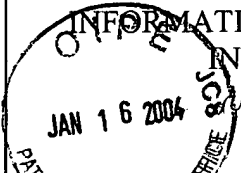
In the unlikely event that the transmittal letter is separated from this document or the Patent Office determines that an extension and/or other relief is required, applicant petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing **529702000100**. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: January 16, 2004

Respectfully submitted,

By: 
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Registration No. 41,897

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Form PTO-1449  (Use several sheets if necessary)	Docket Number 529702000100	Application Number 10/609,192
	Applicant Ruoying TAN et al.	
	Filing Date June 27, 2003	Group Art Unit 1645
	Mailing Date January 16, 2004	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	4/21/1998	5,741,657	Tsien et al.			
	2.	9/1/1998	5,801,000	Leder et al.			
	3.	9/21/1999	5,955,604	Tsien et al.			
	4.	8/29/2000	6,110,695	Gunn et al.			

FOREIGN PATENT DOCUMENTS

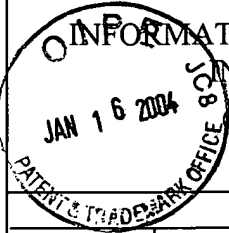
Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	5.	John G. Flanagan et al. "Alkaline Phosphatase Fusions of Ligands or Receptors as in Situ Probes for Staining of Cells, Tissues, and Embryos." <i>Methods in Enzymology</i> 327:19-35 (2000).
	6.	John G. Flanagan et al. "Alkaline Phosphatase Fusion Proteins for Molecular Characterization and Cloning of Receptors and Their Ligands." <i>Methods in Enzymology</i> 327:198-210 (2000).
	7.	Guy P. A. Vigers et al. "Crystal Structure of the Type-I Interleukin-1 Receptor Complexed with Interleukin-1 β ." <i>Nature</i> 386, No. 13: 190-194 (1997).
	8.	James Lee et al. "Characterization of Two High Affinity Human Interleukin-8 Receptors." <i>The Journal of Biological Chemistry</i> 267, No. 23: 16283-16287 (1992).
	9.	Craig A. Smith et al. "A Receptor for Tumor Necrosis Factor Defines an Unusual Family of Cellular and Viral Proteins." <i>Science</i> 248: 1019-1023 (1990).
	10.	Erez Raz et al. "B-Lactamase as a Marker for Gene Expression in Live Zebrafish Embryos." <i>Developmental Biology</i> 203: 290-294 (1998).
	11.	Gregor Zlokarnik et al. "Quantitation of Transcription and Clonal Selection of Single Living Cells with B-Lactamase as Reporter." <i>Science</i> 279: 84-88 (1998).
	12.	Hsiuchen Chen et al. "A New Signal Sequence Trap Using Alkaline Phosphatase as a Reporter." <i>Nucleic Acids Research</i> 27, No. 4: 1219-1222 (1999).

EXAMINER:	DATE CONSIDERED:
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.	

Form PTO-1449		Docket Number 529702000100	Application Number 10/609,192
 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Applicant Ruoying TAN et al.	
		Filing Date June 27, 2003	Group Art Unit 1645
		Mailing Date January 16, 2004	
	13.	Anthony J. Chubb et al. "Identification of Mycobacterium Tuberculosis Signal Sequences that Direct the Export of a Leaderless β -Lactamase Gene Product in Escherichia Coli." <i>Microbiology</i> 144: 1619-1629 (1998).	
	14.	Ruoying Tan et al. "A Novel Glutamine-RNA Interaction Identified by Screening Libraries in Mammalian Cells." <i>Proc. Natl. Acad. Sci</i> 95: 4247-4252 (1998).	
	15.	John T. Moore et al. "The Development of β -Lactamase as a Highly Versatile Genetic Reporter for Eukaryotic Cells." <i>Annal. Biochem.</i> 247: 203-209 (1997).	
	16.	James T. Kadonaga et al. "The Role of the β -Lactamase Signal Sequence in the Secretion of Proteins by Escherichia Coli." <i>The Journal of Biological Chemistry</i> 259, No. 4:2149-2154 (1984).	
	17.	Juha-Pekka Himanen et al. "Crystal Structure of an Eph Receptor-Ephrin Complex." <i>Nature</i> 414:933-938 (2001).	
	18.	Hirashima et al. "Intracellular Dynamics of a High Affinity NGF Receptor TrKA in PC12 Cell." <i>Biol. Pharm. Bull.</i> 23 (9) 1097-1099 (2000).	
	19.	Alan D. D'Andrea et al. "Expression Cloning of the Murine Erythropoietin Receptor." <i>Cell</i> 57:277-285 (1989).	
	20.	J. Gregor Sutcliffe "Nucleotide Sequence of the Ampicillin Resistance Gene of Escherichia Coli Plasmid pBR322." <i>Proc. Natl. Acad. Sci.</i> 75 (8): 3737-3741 (1978).	
	21.	Yousif Shamoo et al. "Multiple RNA Binding Domains (RBDs) Just Don't Add Up." <i>Nucleic Acids Research</i> 23 (5): 725-728 (1995).	
	22.	PanVera Website: Beta-Lactamase Reporter Gene Technology: Invitrogen Discovery Screening. Pg 1-3 (Printed June 10, 2003).	
	23.	PanVera LLC: Beta-Lactamase Reporter Technology Summary. Pg 1-4 (2003).	
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